

Title (en)
OCCUPANT RESTRAINING DEVICE FOR VEHICLE

Title (de)
INSASSENRÜCKHALTEVORRICHTUNG FÜR FAHRZEUG

Title (fr)
DISPOSITIF DE RETENUE D'OCCUPANTS POUR VÉHICULE

Publication
EP 3360727 A1 20180815 (EN)

Application
EP 17207094 A 20171213

Priority
JP 2017020637 A 20170207

Abstract (en)
An occupant restraining device (10) for a vehicle (99) has: a time to collision estimating section (14) that estimates a time to collision, the time to collision being a time until a front collision with a vehicle ahead; a force imparting portion (18) that imparts force toward a vehicle rear side to a vehicle occupant (26) of an own vehicle; a gap enlarging portion (16) that enlarges a gap (S) between the vehicle occupant (26) and a seatback (32) of a vehicle seat (24); a gap estimating section (22) that estimates a size of the gap (S) between the vehicle occupant (26) and the seatback (32); and a control section (22) that, in a case in which the gap enlarging portion (16) operates, controls a timing of a start of operation of the force imparting portion on the basis of the time to collision estimated by the time to collision estimating section (22) and the size of the gap (S) estimated by the gap estimating section (22).

IPC 8 full level
B60N 2/427 (2006.01); **B60R 22/195** (2006.01)

CPC (source: CN EP US)
B60N 2/42727 (2013.01 - EP US); **B60R 21/0132** (2013.01 - CN); **B60R 21/0134** (2013.01 - CN US); **B60R 21/02** (2013.01 - US); **B60R 2021/0004** (2013.01 - US); **B60R 2021/01272** (2013.01 - US)

Citation (applicant)
• JP 2006175901 A 20060706 - NISSAN MOTOR
• JP 2003025955 A 20030129 - HONDA MOTOR CO LTD

Citation (search report)
• [A] EP 1591308 A1 20051102 - AISIN SEIKI [JP]
• [A] EP 2065262 A2 20090603 - MAZDA MOTOR [JP]

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3360727 A1 20180815; **EP 3360727 B1 20190410**; CN 108394369 A 20180814; CN 108394369 B 20201117; JP 2018127058 A 20180816; JP 6767276 B2 20201014; US 10647281 B2 20200512; US 2018222425 A1 20180809

DOCDB simple family (application)
EP 17207094 A 20171213; CN 201711340295 A 20171214; JP 2017020637 A 20170207; US 201715836984 A 20171211